Application No. _____
Date Received _____
Reviewer's Initials _____
Date Reviewed _____

TOWN OF MERRIMACK, NEW HAMPSHIRE
INDUSTRIAL USER WASTEWATER PERMIT APPLICATION

SECTION A. GENERAL INFORMATION

All items are to be completed. Proposed discharge should indicate whether discharge information is actual or estimated. Existing and increased discharges must give actual information for all questions. If an item is not applicable, indicate "NA". Unless otherwise specified, please *print* or *type*.

☐ Existing Discharge ☐ Proposed Discharge ☐ Application for Increased Use

1. Company Name _____
2. Address _____
3. Mailing Address (if different) _____
4. Name of Signing Official _____
5. Title of Signing Official _____
6. Business Phone Number _____(_____)_____
7. Person to contact concerning information provided herein:
   a. Name _____
   b. Title _____
   c. Business Phone Number _____(_____)_____
8. Parent Company Name _____
9. Address _____

I have personally examined and am familiar with the information submitted in this document and attachments. Based upon my inquiry of those individuals immediately responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and/or imprisonment.

_____ _____
Date Signature of Official
(Seal if Applicable)

SECTION B. PRODUCT OR SERVICE INFORMATION

10. Brief narrative description of manufacturing or service activity:

11. List all raw materials used in your process/production operations: Indicate whether any priority pollutants from Table presented under Section G are present. Also list any compounds that may be used in your manufacturing process that is not part of the final product.

Raw Materials	Amount Used/Year Pounds, Gallons, etc.	Estimated % Loss to Sewer

12. Principal Products/Services Amount/Year

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

_____ _____

13. Standard Industrial Classification Codes (SIC) for all processes:
(See Appendix for definition)

_____

14. a. Are the processes above designated by EPA's categorical pretreatment standards? (See Appendix)

☐ YES ☐ NO

b. If YES, give subcategory designation in space provided.

_____

c. job shop ☐ captive shop ☐ integrated ☐ non-integrated ☐

15. Has a baseline report been prepared and submitted for EPA categorical pretreatment program?

☐ YES ☐ NO

If YES, provide a copy.

SECTION C. PLANT OPERATIONAL CHARACTERISTICS

16. Is a Wastewater Spill Prevention Control and Countermeasure Plan prepared for the facility?

☐ YES ☐ NO

If YES, provide a copy.

17. a. Is a slug control plan prepared for the facility in accordance with 40 CFR 403.8(F)(2)(v)?

☐ YES ☐ NO

b. According to this requirement has your facility updated this plan in the last two years?

☐ YES ☐ NO

18. Are your processes subject to seasonal variation?

☐ YES ☐ NO

If YES, explain indicated period(s) of peak operation and products:

_____

_____

_____

_____

_____

19. Is a Storm Water Pollution Prevention Plan prepared for the facility (SWPPP) in accordance with 40 CFR 122.26?

☐ YES ☐ NO

20. Shift Information

a. Number of shifts per work day _____

b. Number of employees— Shift 1 _____
Shift 2 _____
Shift 3 _____
Total _____

c. Days of Operation Per Week:

Shifts: 1 _____ 2 _____ 3 _____

d. Shift Start Times:

1st _____
2nd _____
3rd _____

SECTION D. WATER

21.

Sources	Average Volume Gallons/Day	Maximum Volume Gallons/Day
Water District		
River or Pond		
Ground		
Other		
TOTAL		

22. List past 12 months water usage from water bills:

MONTH/YEAR	USAGE (GALLONS)

23. Describe any raw water processes used:

_____

_____

_____

24. Describe any water recycling or material reclaiming processes used:

_____

_____

_____

_____

SECTION E. WASTEWATER

25. Wastewater discharged to municipal sewers: (See Appendix for definitions)

TYPE	AVERAGE VOLUME GALLONS/DAY	WHERE DISCHARGED
Process		
Sanitary		
Cooling		
Boiler Blowdown		
Filter Backwash		
Compressor Condensate		
Scrubber Wastewater		
Water Curtain Waste		
Reverse Osmosis Waste		
Other		

26. Frequency information for the process wastewater discharges:
(If additional space is required use back of this page)

PROCESS NAME	CONTINUOUS, OR INTERMITTENT BATCH DUMP TO SEWER	VOLUME	FREQUENCY OF BATCH DUMPS	HOURS PER DAY OF CONTINUOUS DUMPS

27. Wastewater discharged other than to municipal sewer?

a. ☐ YES ☐ NO

TYPE	AVERAGE VOLUME GALLONS/DAY	WHERE DISCHARGED
Process		
Sanitary		
Cooling		
Boiler Blowdown		
Other (Specify)		
TOTAL		

b. Wastewater discharges to the groundwater by way of:

	AVERAGE VOLUME GALLONS/DAY
Lagoons	_____
Seepage Pits	_____
Leach Fields	_____
Land Surface	_____
	_____

If YES, indicate NPDES permit number. Provide a copy. (See Appendix)

28. Water consumed in product(s)? _____ Average Gallons/Day

29. Describe any wastewater treatment equipment or processes in use:

30. Furnish plans and specifications covering any existing or proposed pretreatment facilities.

31. Wastewater Discharges Leaving Buildings:

Building No.	Pipe Size	Pipe Material	Discharges to	Average Volume Gallons/Day

32. Describe waste liquids, if any, that are hauled away for disposal, and list the destination and the hauler of each type of waste:

33. Attach map of the site showing the pipe size and approximate location of all sewer connections, drains, or outfalls leaving all buildings including location of water meters, internal plumbing, monitoring equipment and pretreatment facilities.

    Indicate plan scale, north arrow, street names, rivers, ponds, wells, outline of on-lot sewerage disposal systems (septic tank and leaching field), municipal sewer, flow arrow, etc.)

34. Sampling Station(s):

Manufacturer	Model	Location

35. Flow Meter(s):

Manufacturer	Model	Location

SECTION F. ANALYSIS OF INDUSTRIAL WASTEWATER

36. For the process wastewaters discharged this section must be completed. Please submit analysis sheet from certified laboratory.

    1) Sample Point(s)_____

    2) Source of Wastewater_____

    3) Volume _____Gallons/Day

    4) pH (Daily Range)_____Units

    5) Temperature Daily Range_____^{o}F

    6) Color_____Pt-Co

    7) Turbidity_____JTU

    8) Fecal Coliform Bacteria_____ No./100 mL

Parameter		Average Daily Concentration	Quantity
9)	Biochemical Oxygen Demand (BOD 5-Day)	mg/L	lb./day
10)	Chemical Oxygen Demand (COD)	mg/L	lb./day
11)	Total Solids	mg/L	lb./day
12)	Suspended Solids	mg/L	lb./day
13)	Dissolved Solids	mg/L	lb./day
14)	Total Volatile Solids	mg/L	lb./day
15)	Suspended Volatile Solids	mg/L	lb./day
16)	Settleable Solids		
17)	Total Phosphorus	mg/L	lb./day
18)	Orthophosphate	mg/L	lb./day
19)	Ammonia (As N)	mg/L	lb./day
20)	Oil and Grease	mg/L	lb./day
21)	Chlorine Demand	mg/L	lb./day
22)	Chromium (VI)	mg/L	lb./day
23)	Chromium[1]	mg/L	lb./day
24)	Iron[1]	mg/L	lb./day
25)	Copper[1]	mg/L	lb./day
26)	Zinc[1]	mg/L	lb./day
27)	Lead[1]	mg/L	lb./day
28)	Mercury[1]	mg/L	lb./day
29)	Nickel[1]	mg/L	lb./day
30)	Cadmium[1]	mg/L	lb./day
31)	Total Metals[2]	mg/L	lb./day
32)	Phenol	mg/L	lb./day
33)	Cyanide (A)[3]	mg/L	lb./day
34)	Cyanide[1]	mg/L	lb./day
35)	Chlorides	mg/L	lb./day
36)	Sulfide	mg/L	lb./day
37)	Sulfate	mg/L	lb./day
38)	Total Toxic Organics	mg/L	lb./day
39)	Silver	mg/L	lb./day

Parameter		Average Daily Concentration	Quantity
40)	Beryllium	mg/L	lb./day
41)	Boron	mg/L	lb./day
42)	Selenium	mg/L	lb./day
43)	Other constituents characteristic of your operations		

44) Sample Technique: Grab _____ Flow Proportional Composite _____
Timed Composite Sample _____

45) Who Collected Sample?_____

46) Name and Address of Certified Laboratory:_____
_____

---

[1] All reported as total concentrations.

[2] Sum of the concentrations of copper, nickel, chromium (T), and zinc.

[3] Cyanide amenable to chlorination.

SECTION G. <u>PRIORITY POLLUTANTS</u>

37. Indicate by placing an Ω in the appropriate box which, if any, of the priority pollutants listed in the Table are being used at this facility in the manufacturing of the product or generated as a by-product *<u>which may possibly be discharged to the sewer</u>*. Some compounds are known by other names. Please refer to Appendix A (attached) for those compounds which have an asterisk (*).

TABLE OF PRIORITY POLLUTANTS			
ITEM NO.	CHEMICAL COMPOUND	SUSPECTED PRESENT IN WASTEWATER	KNOWN PRESENT IN WASTEWATER
1.	asbestos (fibrous)		
2.	cyanide (total)		
3.	antimony (total)		
4.	arsenic (total)		
5.	beryllium (total)		
6.	cadmium (total)		
7.	chromium (total)		
8.	copper (total)		
9.	lead (total)		
10.	mercury (total)		
11.	nickel (total)		
12.	selenium (total)		
13.	silver (total)		
14.	thallium (total)		
15.	zinc (total)		
16.	acenaphthylene		
18.	acrolein		
19.	acrylonitrile		
20.	aldrin		
21.	anthracene		
22.	benzene		
23.	benzidine		
24.	benzo (a) anthracene*		
25.	benzo (a) pyrene*		
26.	benzo (b) fluoranthene		
27.	benzo (g,h,I) perylene*		
28.	benzo (k) fluoranthene*		
29.	a-BHC (alpha)		
30.	b-BHC (beta)		
31.	d-BHC (delta)		
32.	g-BHC* (gamma)		
33.	bis (2-chloroethyl) ether*		
34.	bis (2-chloroethoxy) methane*		
35.	bis (2-chloroisopropyl) ether*		
36.	bis (chloromethyl) ether*		
37.	bis (2-ethylhexyl) phthalate*		
38.	bromodichloromethane*		
39.	bromoform*		
40.	bromomethane*		
41.	4-bromophenylphenyl ether		
42.	butylbenzyl phthalate		
43.	carbon tetrachloride*		
44.	chlordane		
45.	4-chloro-3-methylphenol*		
46.	chlorobenzene		
47.	chloroethane*		
48.	2-chloroethylvinyl ether		

TABLE OF PRIORITY POLLUTANTS			
ITEM NO.	CHEMICAL COMPOUND	SUSPECTED PRESENT IN WASTEWATER	KNOWN PRESENT IN WASTEWATER
49.	chloroform*		
50.	chloromethane*		
51.	2-chloronaphthalene		
52.	2-chlorophenol*		
53.	4-chlorophenylphenyl ether		
54.	chrysene		
55.	4,4'-DDD*		
56.	4,4'-DDE*		
57.	4,4'-DDT*		
58.	dibenzo (a,h) anthracene*		
59.	dibromochloromethane*		
60.	1,2-dichlorobenzene*		
61.	1,3-dichlorobenzene*		
62.	1,4-dichlorobenzene*		
63.	3,3'-dichlorobenzidine		
64.	dichlorodifluoromethane*		
65.	1,1-dichloroethane*		
66.	1,2-dichloroethane*		
67.	1,1-dichloroethene*		
68.	trans-1,2-dichloroethene*		
69.	2,4-dichlorophenol		
70.	1,2-dichloropropane*		
71.	(cis & trans) 1,3-dichloropropene*		
72.	dieldrin		
73.	diethyl phthalate*		
74.	2,4-dimethylphenol*		
75.	dimethyl phthalate		
76.	di-n-butyl phthalate		
77.	di-n-octyl phthalate		
78.	4,6-dinitro-2-methylphenol*		
79.	2,4-dinitrophenol		
80.	2,4-dinitrotoluene		
81.	2,6-dinitrotoluene		
82.	1,2-diphenylhydrazine*		
83.	endosulfan I*		
84.	endosulfan II*		
85.	endosulfan sulfate		
86.	endrin		
87.	endrin aldehyde		
88.	ethylbenzene		
89.	fluoranthene		
90.	fluorene*		
91.	heptachlor		
92.	heptachlor epoxide		
93.	hexachlorobenzene*		
94.	hexachlorobutadiene		
95.	hexachlorocyclopentadiene*		

TABLE OF PRIORITY POLLUTANTS			
ITEM NO.	CHEMICAL COMPOUND	SUSPECTED PRESENT IN WASTEWATER	KNOWN PRESENT IN WASTEWATER
96.	hexachloroethane*		
97.	ideno (1,2,3-cd) pyrene*		
98.	isophorone*		
99.	methylene chloride*		
100.	naphthalene		
101.	nitrobenzene		
102.	2-nitrophenol*		
103.	4-nitrophenol*		
104.	N-nitrosodimethylamine*		
105.	N-nitrosodi-n-propylamine*		
106.	N-nitrosodiphenylamine*		
107.	PCB-1016*		
108.	PCB-1221*		
109.	PCB-1232*		
110.	PCB-1242*		
111.	PCB-1248*		
112.	PCB-1254*		
113.	PCB-1260*		
114.	pentachlorophenol		
115.	phenanthrene		
116.	phenol		
117.	pyrene		
118.	2,3,7,8-tetrachlorodibenzo-p-dioxin*		
119.	1,1,2,2-tetrachloroethane*		
120.	tetrachloroethene*		
121.	toluene*		
122.	toxaphene		
123.	1,2,4-trichlorobenzene		
124.	1,1,1-trichloroethane*		
125.	1,1,2-trichloroethane*		
126.	trichloroethene*		
127.	trichlorofluoromethane*		
128.	2,4,6-trichlorophenol		
129.	vinyl chloride*		

38. List on the back of this sheet, any pre-mixed or ready-to-use process chemicals used in facility. Identification for each process chemical should include the trade name and the use to which it is applied: (e.g. electroless copper; a copper plating bath). The amount used (lbs. or gals./year), and estimated overflows, dumps, or other loss to sewers should also be provided. (If this information has been provided previously in this permit application, please indicate where you have included it.

39. In accordance with the Merrimack Sewer Use Ordinance, Article VIII, Section 2.B.(2), please list all your environmental permits held by or for the facility.

APPENDIX

Priority Pollutants

- Group of chemicals listed by EPA as requiring restriction from entering wastewater (see page 10).

Standard Industrial Classification Codes (SIC)

- Four digit code which indicates lines of business, published by the Bureau of the Budget, U.S. Government.

EPA Categorical Pretreatment Standards

- Industries grouped into manufacturing categories, each of which will receive a set of pretreatment limits to be published by the U.S. EPA (as of this date, 1982, only standards for electroplaters have been finalized).

Baseline Report

- Report submitted to the control authority (POTW or EPA) by an industry subject to final categorical standards. The report states how the industry will comply with the pretreatment standards, whether it already does comply or if it needs to install a pretreatment system (and if so, what is the time schedule for completion).

POTW

- Public Owned Treatment Works – The local municipal wastewater treatment plant.

Process Wastewater

- Wastewater discharged from manufacturing processes.

Sanitary (or Domestic) Wastewater

- Wastewater discharged from human sources: bathrooms, locker rooms, dining rooms.

NPDES Permit – (National Pollutant Discharge Elimination System)

- Permit issued by the U.S. EPA or the State regulating wastewater discharge to locations other than the municipal sewer (surface water, underground, etc.)

Captive Shop

- Those which own the material they process. Captives are further divided by two definitions.

Integrated

- Plants are those which, prior to discharge, combine electroplating waste streams with significant process waste streams from other operations.

Non-Integrated

- Are those which have significant wastewater discharges only from operations addressed by the electroplating category.

Job Shops

- Those which treat metal as service and do not own the material they process.

APPENDIX A

PRIORITY POLLUTANT SYNONYM LISTING

CHEMICAL COMPOUND	SYNONYM
benzo (a) anthracene	1,2-benzanthracene
	2,3-benzphenanthrene
benzo (a) pyrene	3,4-benzopyrene
benzo (g,h,I) perylene	1,12-benzoperylene
benzo (k) fluoranthene	11,12-benzofluoranthene
g-BHC	lindane
bis (2-chloroethyl) ether	2,2'-dichloroethyl ether
bis (2-chloroethoxy) methane	2,2'-dichloroethoxy methane
bis (2-chloroisopropyl) ether	2,2'-dichloroisopropyl ether
bis (chloromethyl) ether	(sym) dichloromethyl ether
bis (2-ethylhexyl) phthalate	2,2'-diethylhexyl phthalate
bromodichloromethane	dichlorobromomethane
bromoform	tribromomethane
bromomethane	methyl bromide
carbon tetrachloride	tetrachloromethane
4-chloro-3-methylphenol	para-chloro-meta-cresol
chloroethane	ethylchloride
chloroform	trichloromethane
chloromethane	methyl chloride
2-chlorophenol	para-chlorophenol
chrysene	1,2-benzphenanthrene
4,4'-DDD	dichlorodiphenyldichloroethane
	p,p'-TDE
	tetrachlorodiphenylethane
4,4'-DDE	dichlorodiphenyldichloroethylene p,p'-DDX
4,4'-DDT	dichlorodiphenyltrichloroethane
dibenzo (a,h) anthracene	1,2,5,6-dibenzanthracene
dibromochloromethane	chlorodibromomethane
1,2-dichlorobenzene	ortho-dichlorobenzene
1,3-dichlorobenzene	meta-cihlorobenzene
1,4-dichlorobenzene	para-dichlorobenzene
dichlorodifluoromethane	difluorodichloromethane
	fluorocarbon-12
1,1-dichloroethane	ethylidene chloride
1,2-dichloroethane	ethylene dichloride
	ethylene dichloride
1,1-dichloroethene	1,1-dichloroethylene
	1,2(trans)-dichloroethylene
1,2-dichloropropane	propylene dichloride
diethyl phthalate	ethyl phthalate

CHEMICAL COMPOUNT	SYNONYM
di-n-oxtyl phthalate	di(2-ethylhexyl) phthlate
4,6-dinitro-2-methylphenol	4,6-dinitro-ortho-cresol
1,2-diphenylhydrazine	hydrazobenzene
endosulfan I	a-endosulfan-alpha
endosulfan II	b-endosulfan-beta
fluorene	(alpha)-diphenylene methane
hexachlorobenzene	perchlorobenzene
hexachlorocyclopentadiene	perchlorocyclopentadiene
hexachloroethane	perchloroethane
ideno (1,3,3-cd) pyrene	2,3-ortho-phenylene pyrene
isophorone	3,5,5-trimethyl-2-cyclohexen-1-one
methylene chloride	dichloromethane
2-nitrophenol	para-nitrophenol
4-nitrophenol	ortho-nitrophenol
N-nitrosodimethylamine	dimethyl-nitrosoamine
N-nitrosodipropylamine	N-nitroso-di-n-propylamine
N-nitrosodiphenylamine	diphenyl-nitrosoamine
PCB-1016	Arochlor-1016
PCB-1221	Arochlor-1221
PCB-1232	Arochlor-1232
PCB-1242	Arochlor-1242
PCB-1248	Arochlor-1248
PCB-1254	Arochlor-1254
PCB-1260	Arochlor-1260
2,3,7,8-tetrachlorodibenzo-p-dioxin	TCDD
1,1,2,2-tetrachloroethane	acetylene tetrachloride
tetrachloroethene	perchloroethylene
	tetrachloroethylene
toluene	methylbenzene
	toluol
1,1,1-trichloroethane	methyl chloroform
1,1,2-trichloroethane	vinyl trichloride
trichloroethene	trichloroethylene
trichlorofluoromethane	fluorocarbon-11
	fluorotrichloromethane
vinyl chloride	chloroethene
	chloroethylene
(cis & trans) 1,3-dichloropropene	(cis & trans) 1,3-dichloropropylene
2,4-dimethylphenol	2,4-xylenol